

Title (en)  
Optical add and drop multiplexer

Title (de)  
Optischer Add-/Drop-Multiplexer

Title (fr)  
Multiplexeur optique d'insertion/extraction

Publication  
**EP 2445129 A1 20120425 (EN)**

Application  
**EP 10306141 A 20101019**

Priority  
EP 10306141 A 20101019

Abstract (en)  
An optical add and drop multiplexing device (1), comprises: a WDM input (10) for receiving a plurality of incoming optical signals on a plurality of wavelength channels disposed in a plurality of non-overlapping spectral bands, a drop module (60) comprising an optical receiver (61) for demodulating an optical signal, a sub-band add module (40) comprising an optical transmitter (43) for generating an added optical signal on a wavelength channel disposed in one of the non-overlapping spectral bands, an optical coupler (20) comprising a first input connected to the WDM input and a second input (32) connected to the sub-band add module for combining the added optical signal with the plurality of incoming optical signals, and a wavelength selective switch (30) capable of filtering the combined optical signals so as to select the wavelength channels disposed in a selected subset of the non-overlapping spectral bands.

IPC 8 full level  
**H04J 14/02** (2006.01)

CPC (source: EP)  
**H04J 14/0204** (2013.01); **H04J 14/0206** (2013.01); **H04J 14/0209** (2013.01); **H04J 14/021** (2013.01); **H04J 14/0212** (2013.01); **H04J 14/0213** (2013.01); **H04J 14/0217** (2013.01); **H04J 14/0221** (2013.01); **H04J 14/0297** (2013.01)

Citation (search report)  
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

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